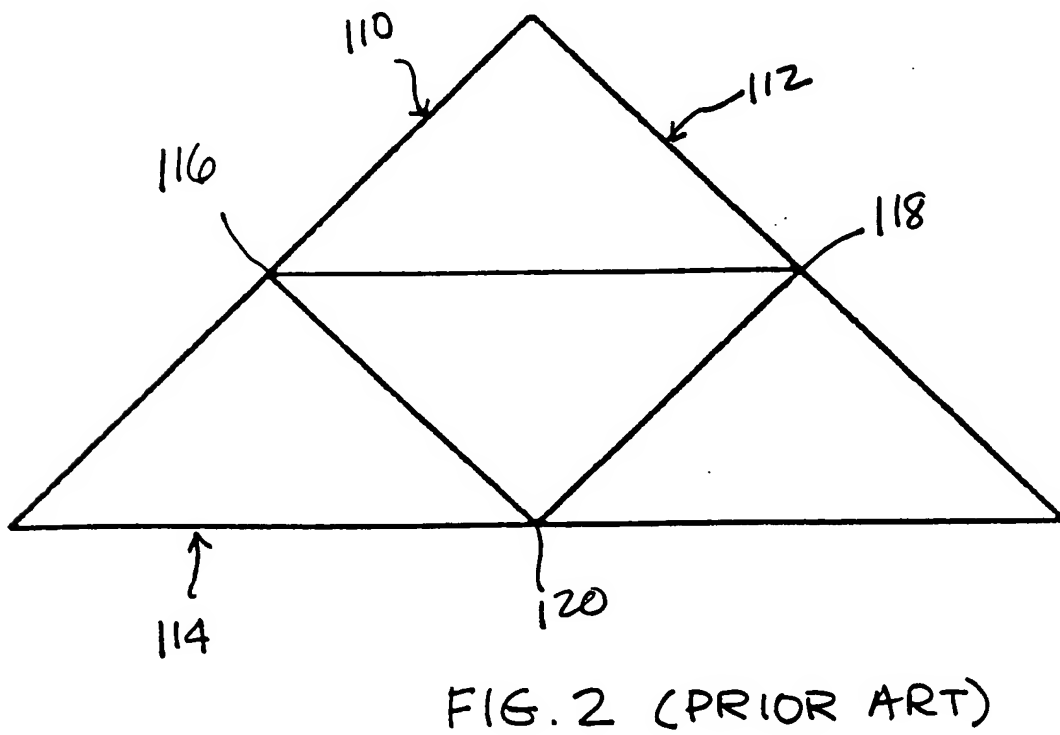
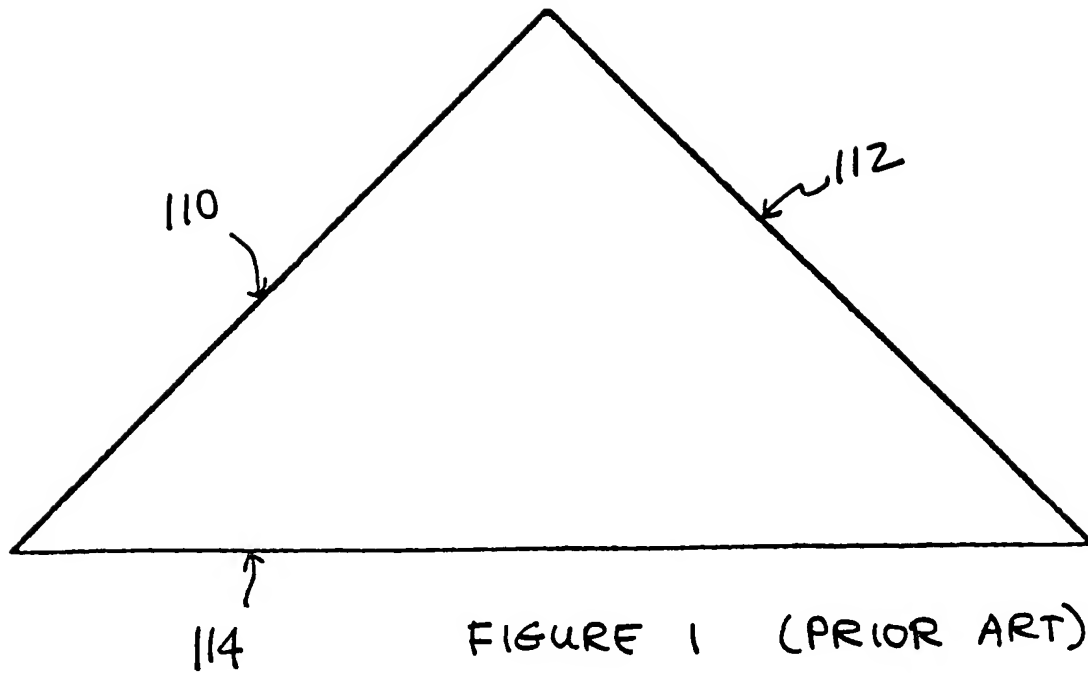


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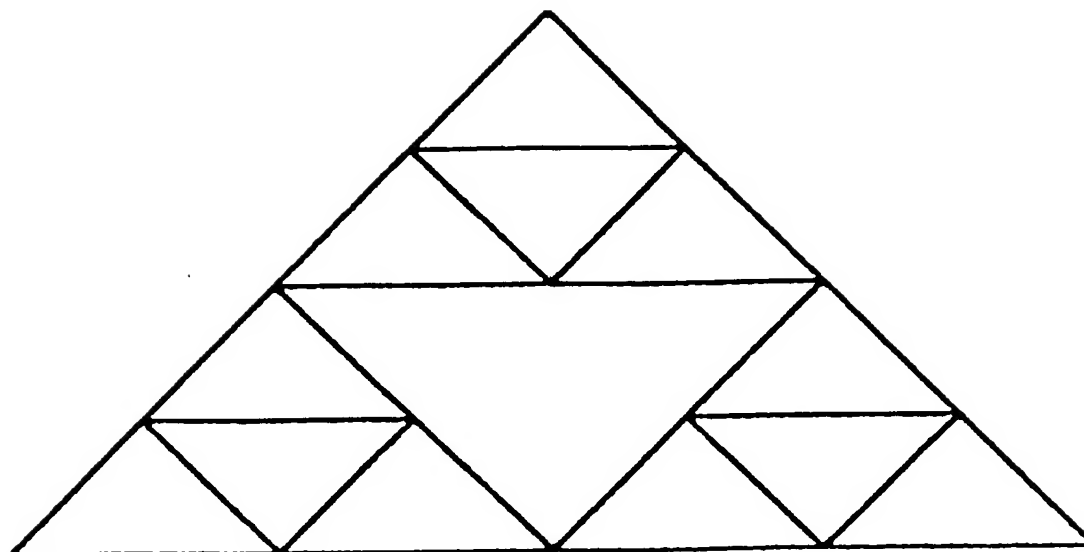


FIG. 3 (PRIOR ART)

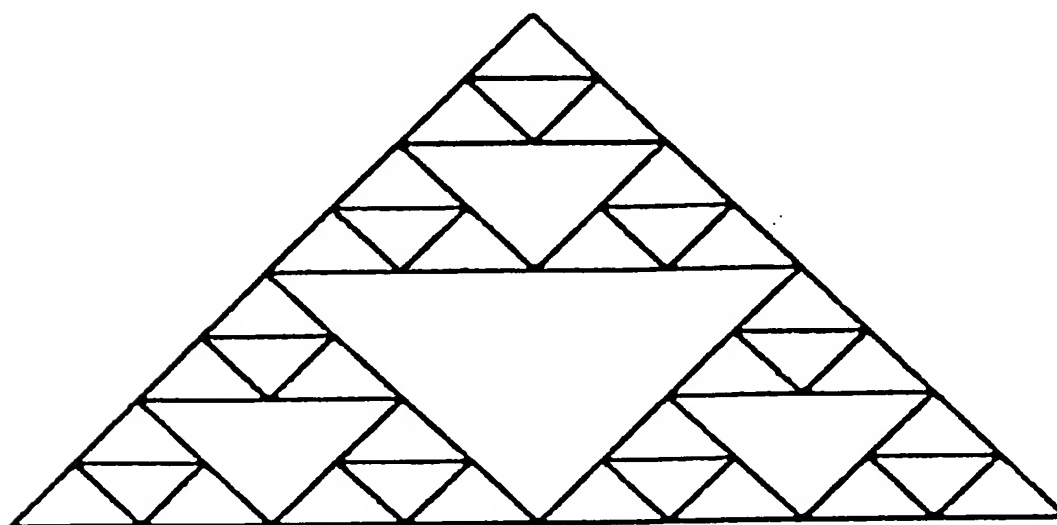


FIG. 4 (PRIOR ART)

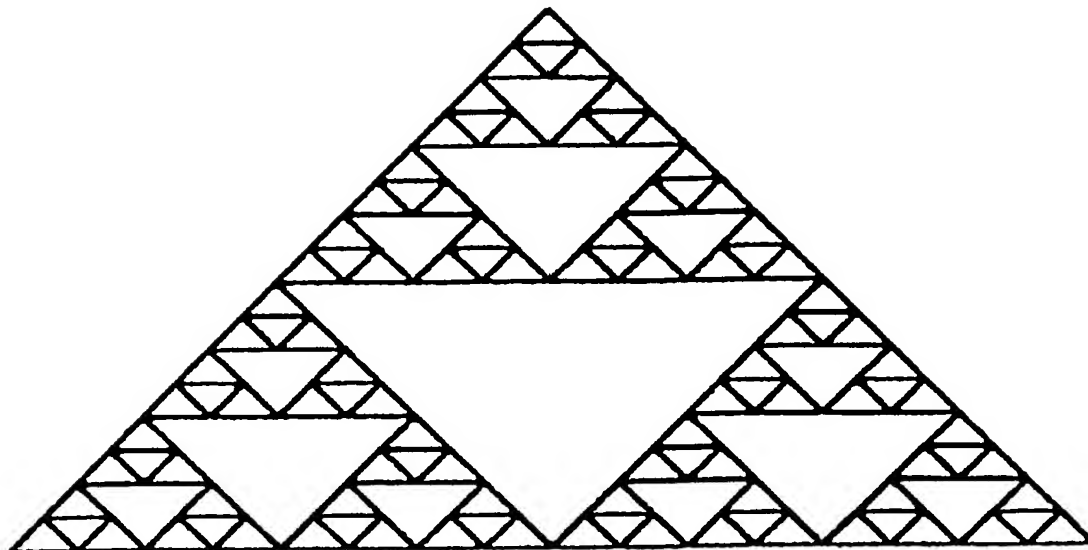


FIG. 5 (PRIOR ART)

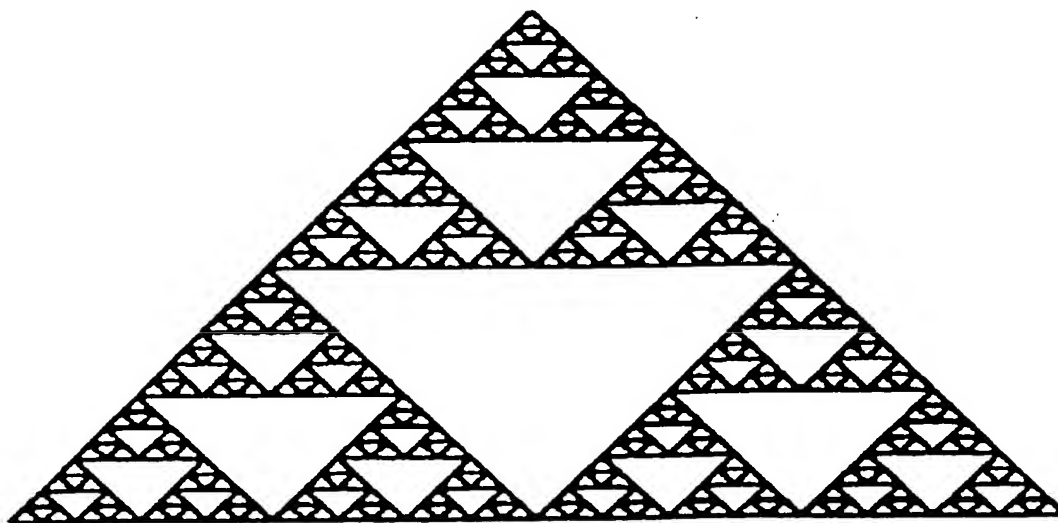


FIG. 6 (PRIOR ART)

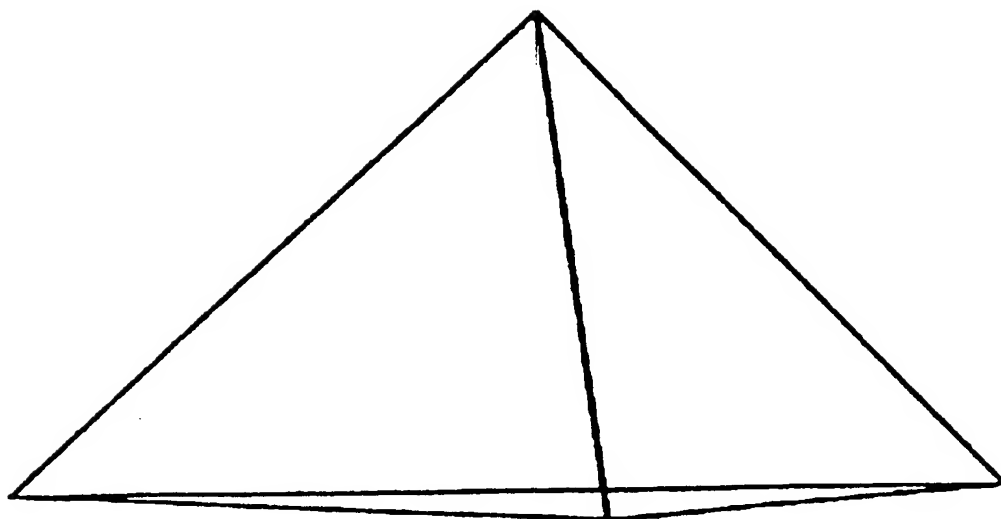


FIG. 7 (PRIOR ART)

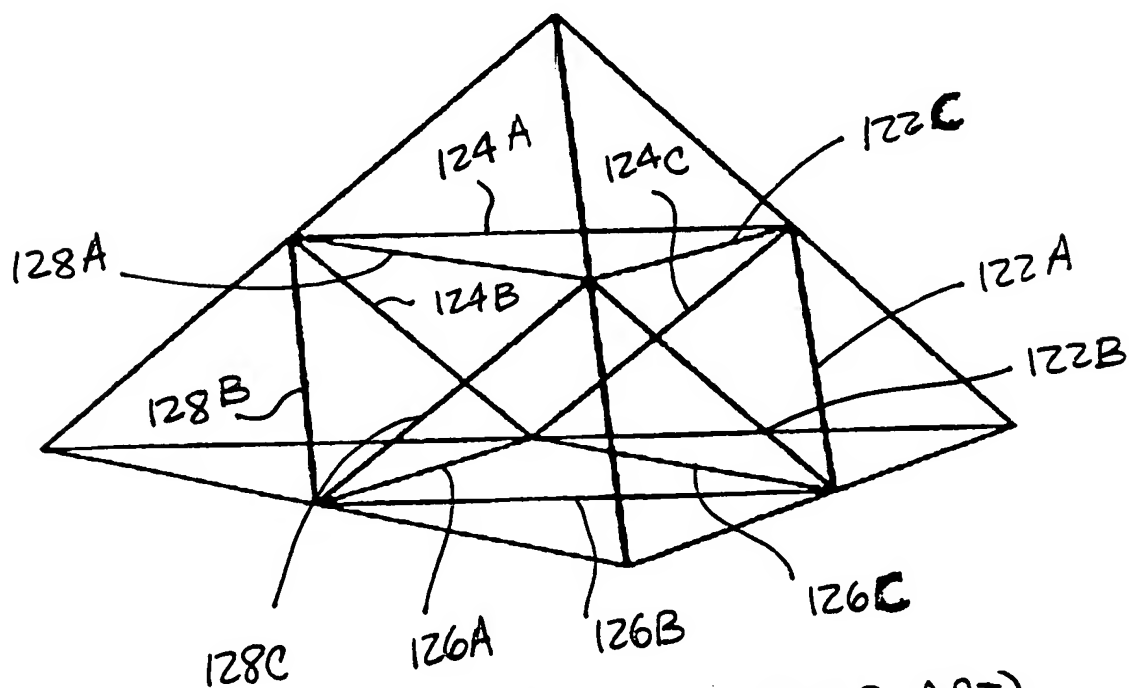


FIG. 8 (PRIOR ART)

1002287.1.122001

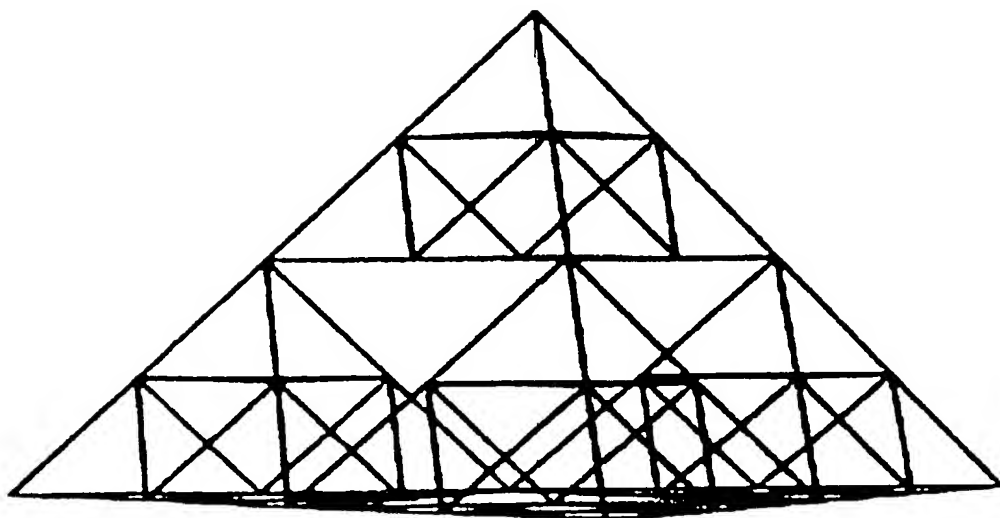


FIG. 9 (PRIOR ART)

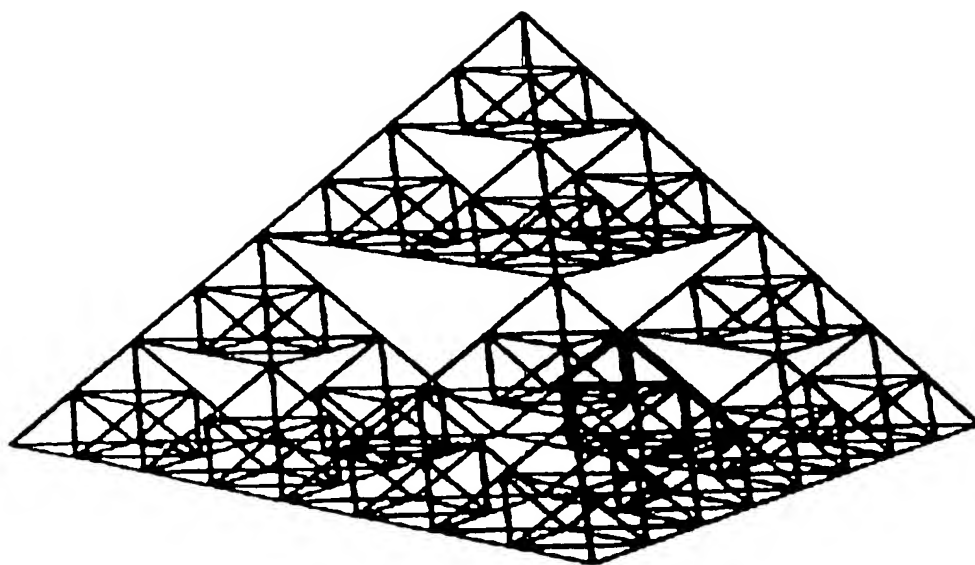


FIG. 10 (PRIOR ART)

FIG. 10A

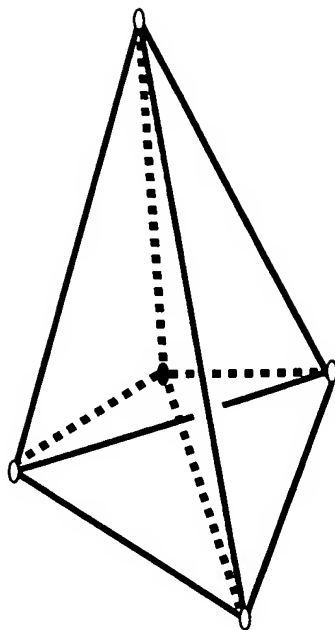


FIG. 10A  
(PRIOR ART)

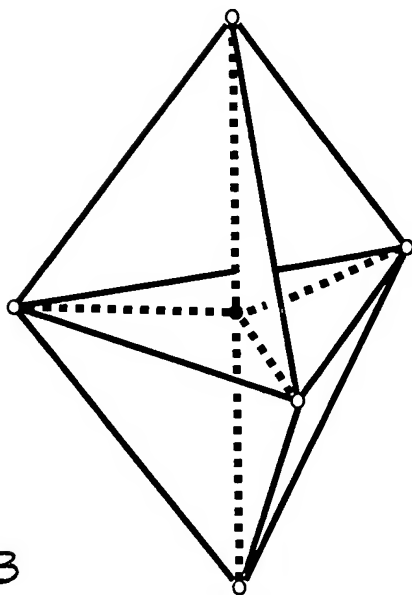
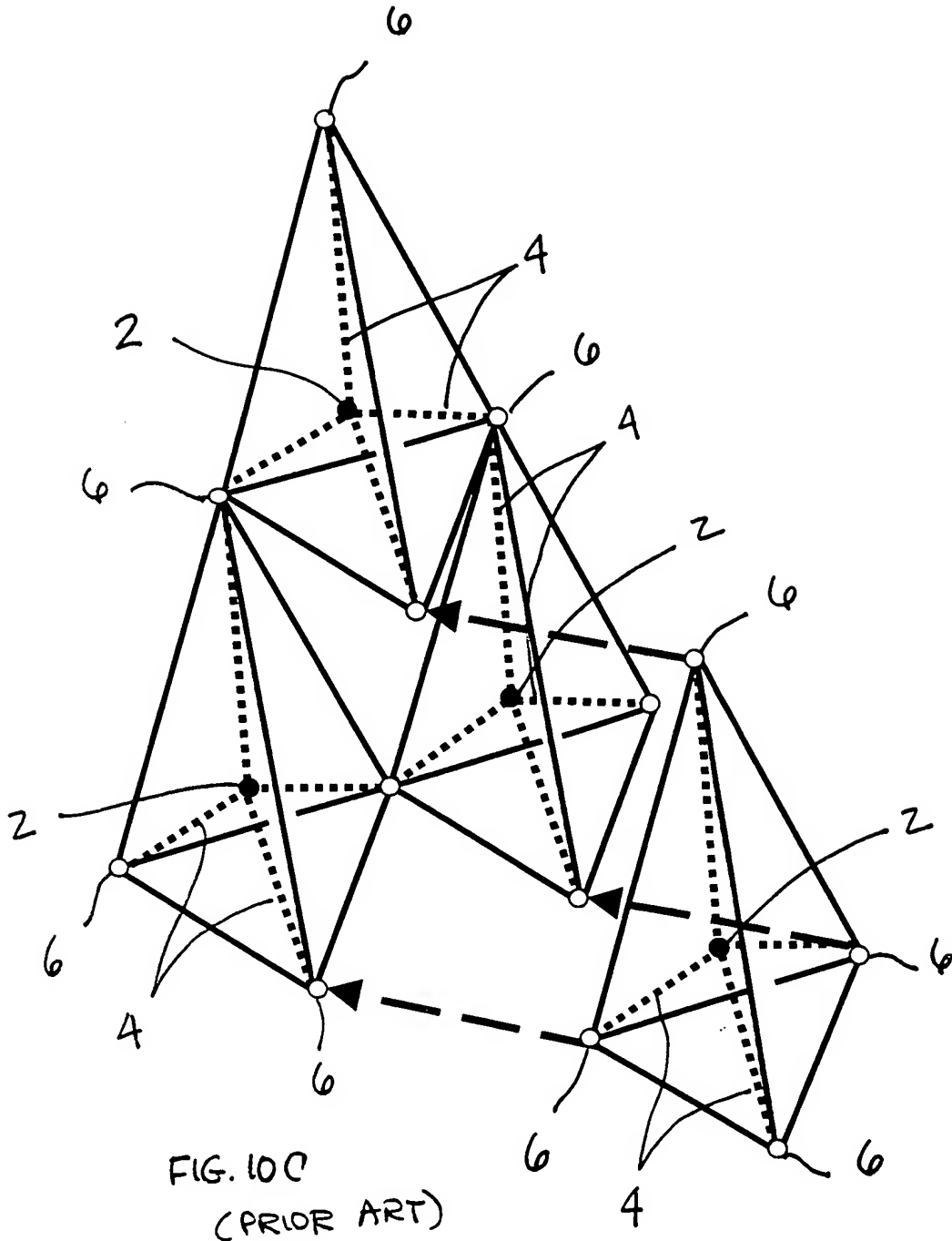


FIG. 10B  
(PRIOR ART)



[illegible]

FIGURE 11



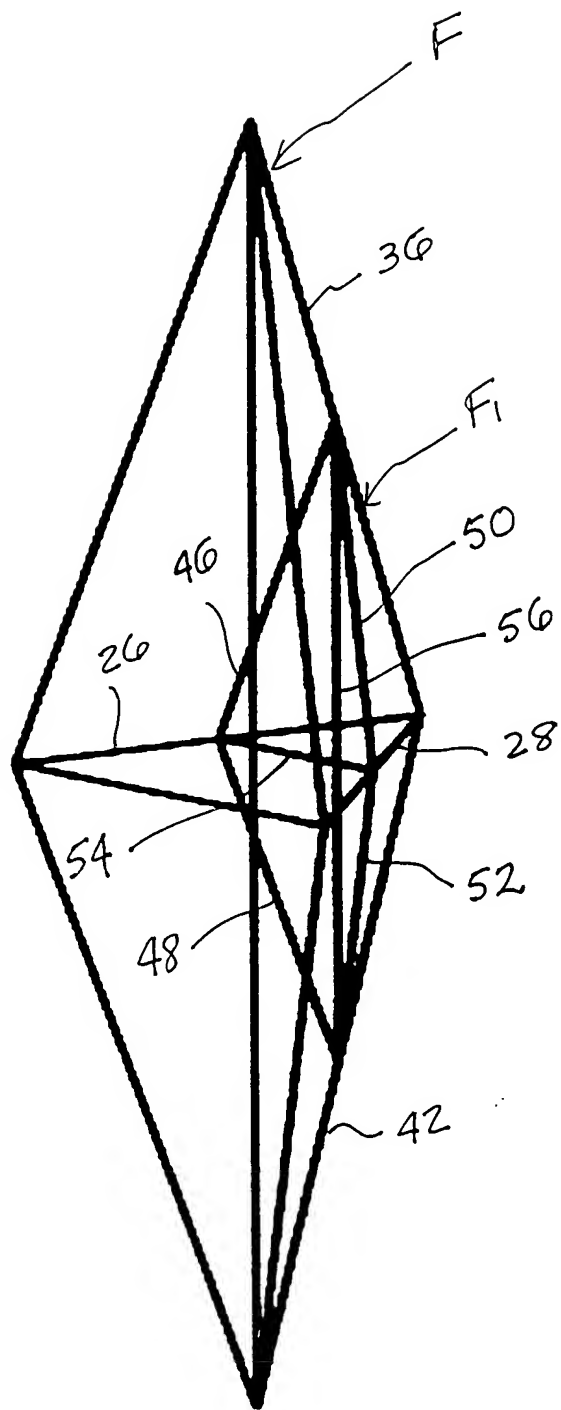


FIG. 12

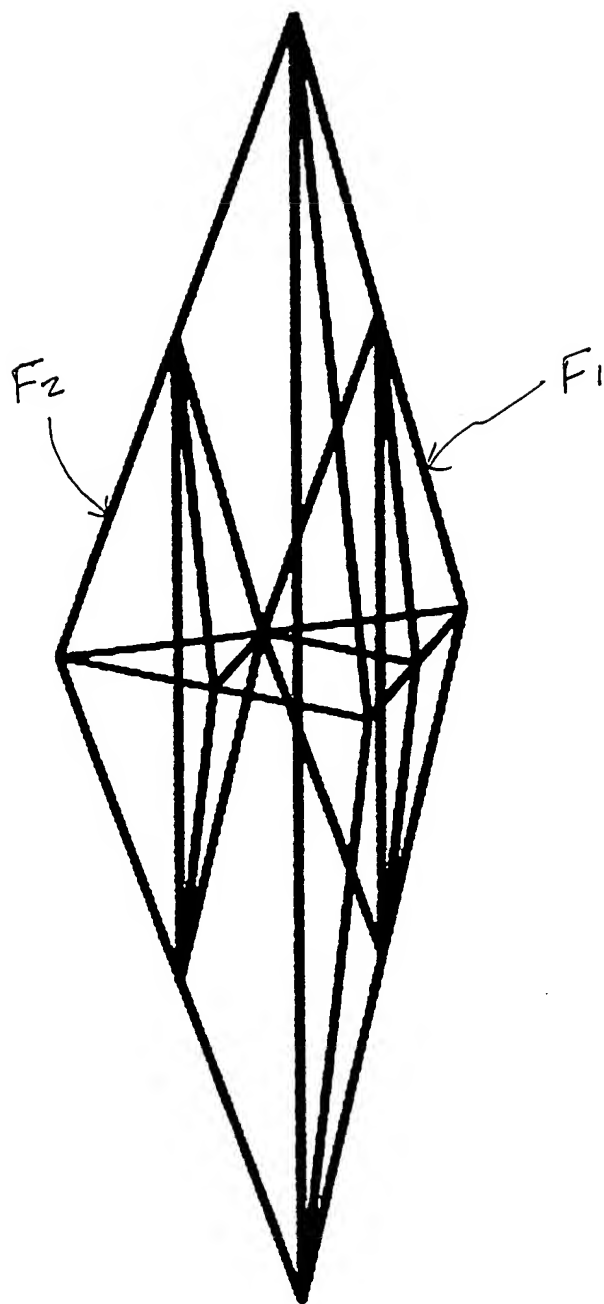


FIG. 13

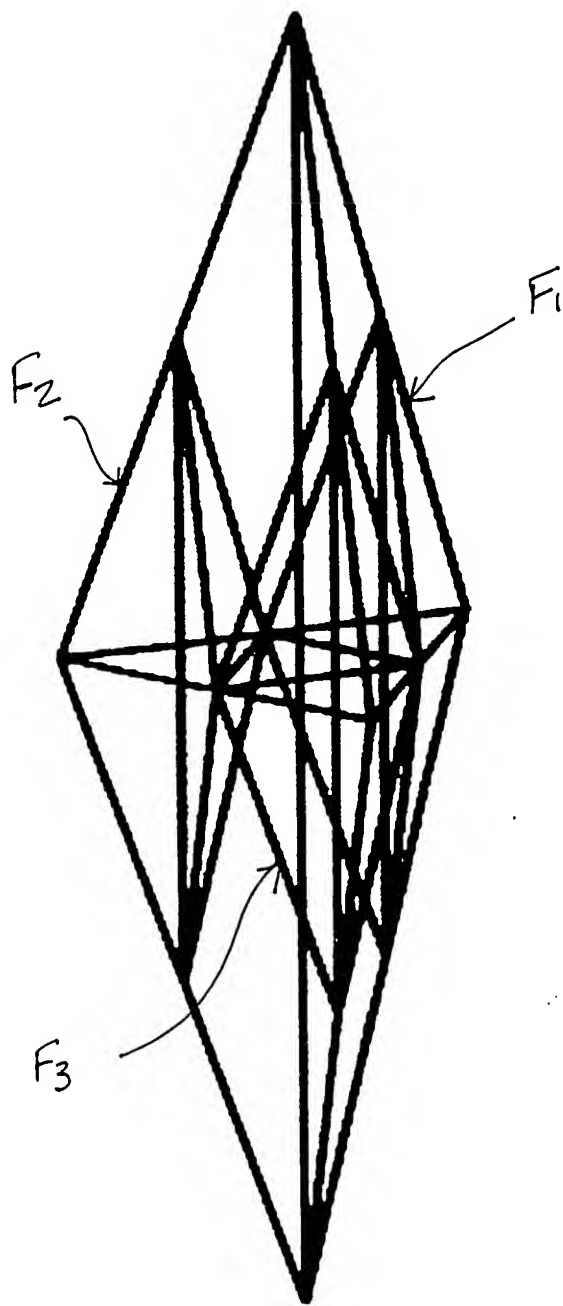
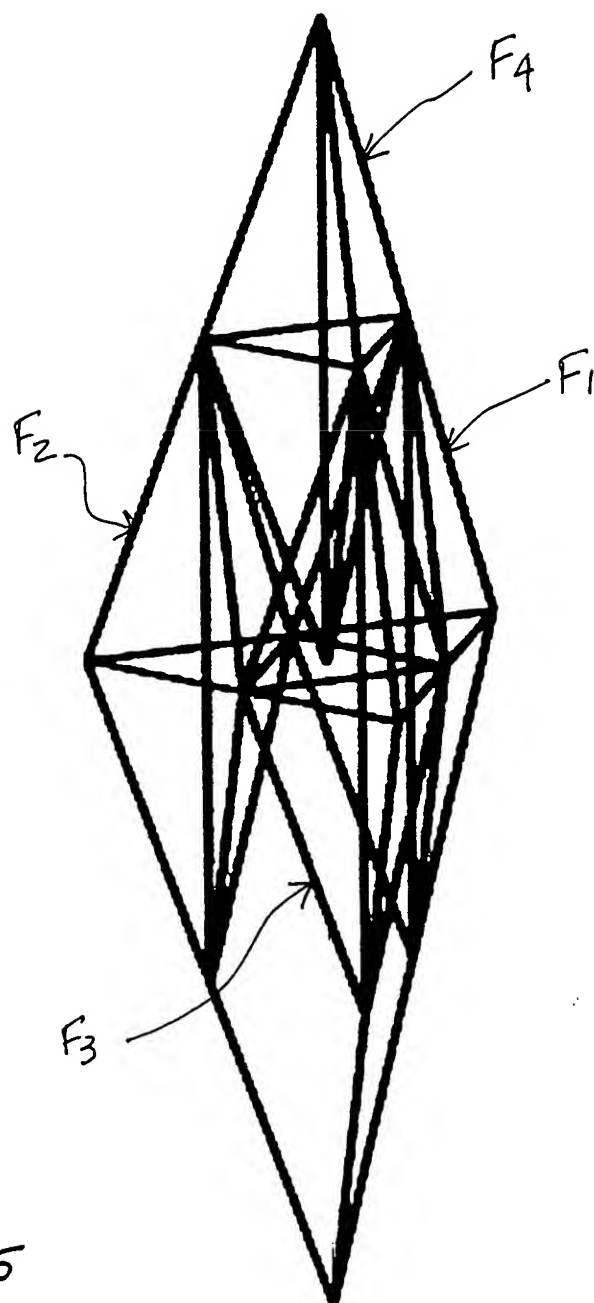


FIG. 14



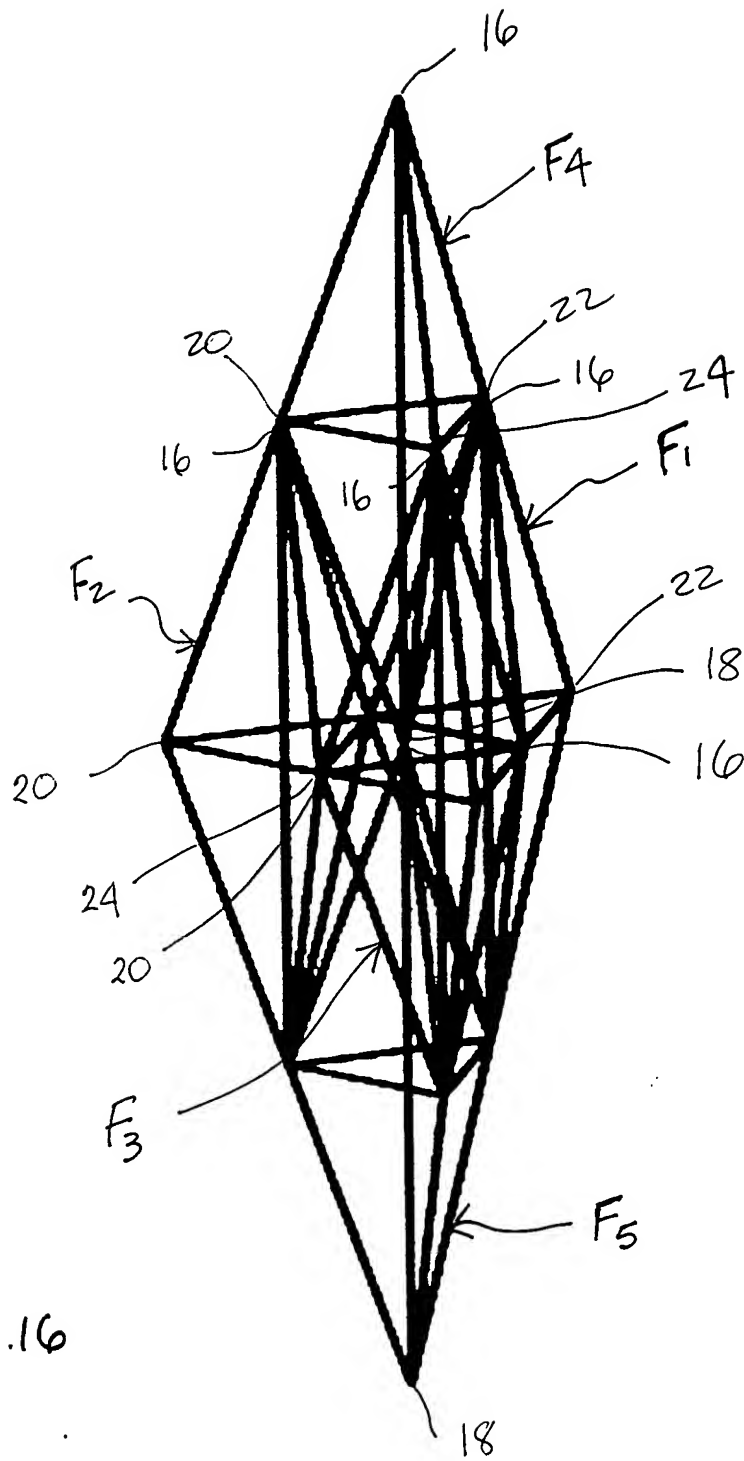


FIG. 16

FIG. 17

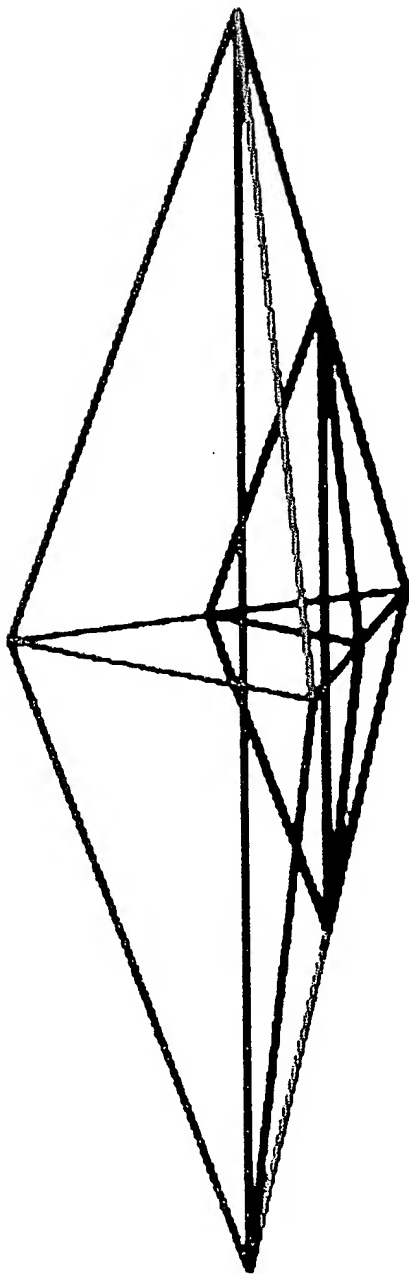


FIG. 17

10022871-123001

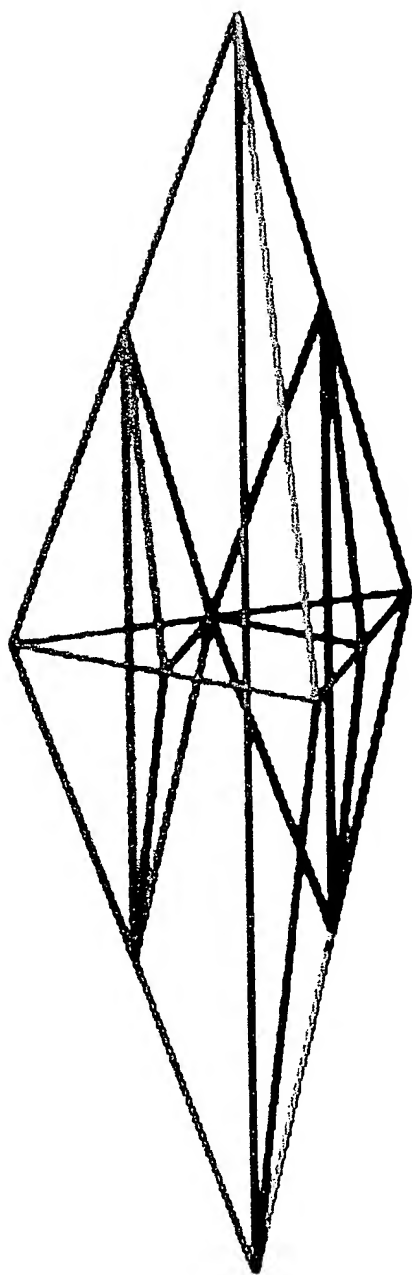


FIG. 18

10022871.13004

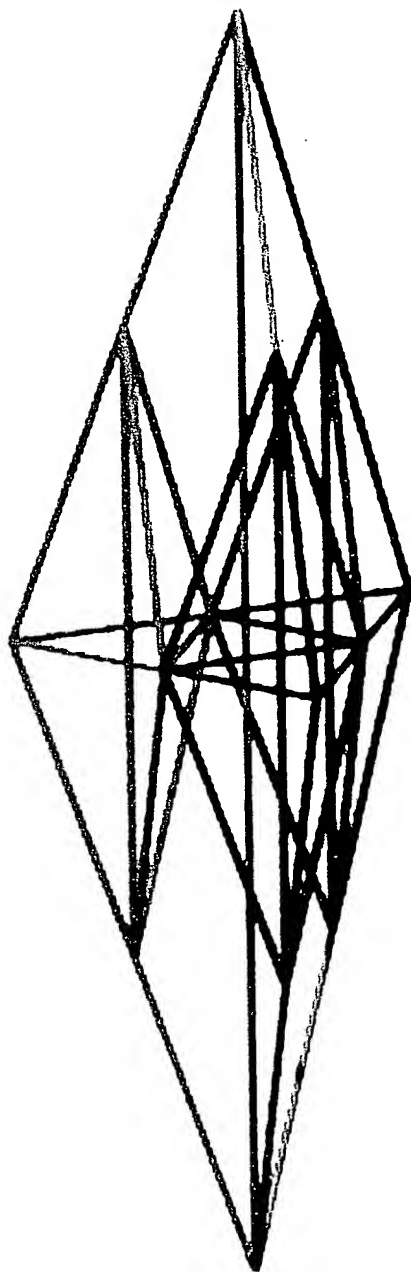


FIG.19



10022871.12001

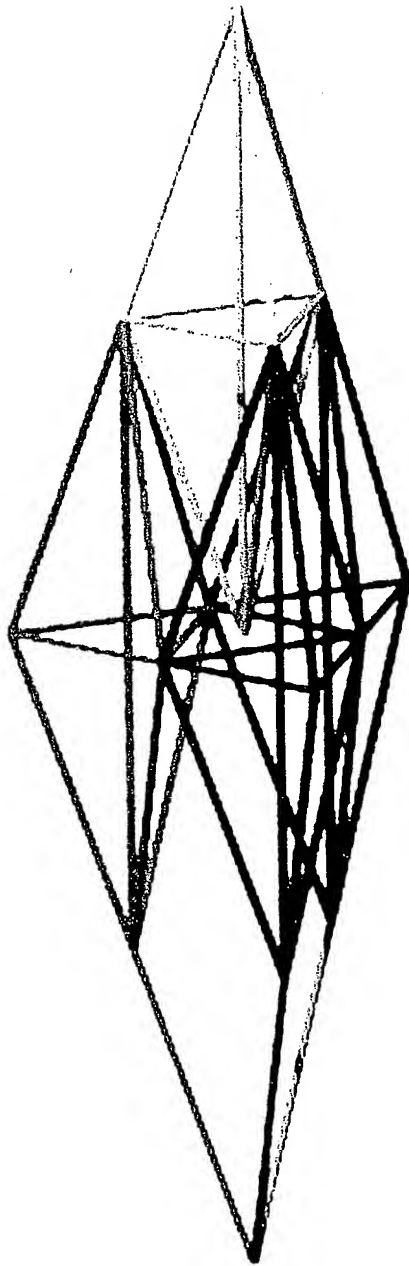


FIG. 20

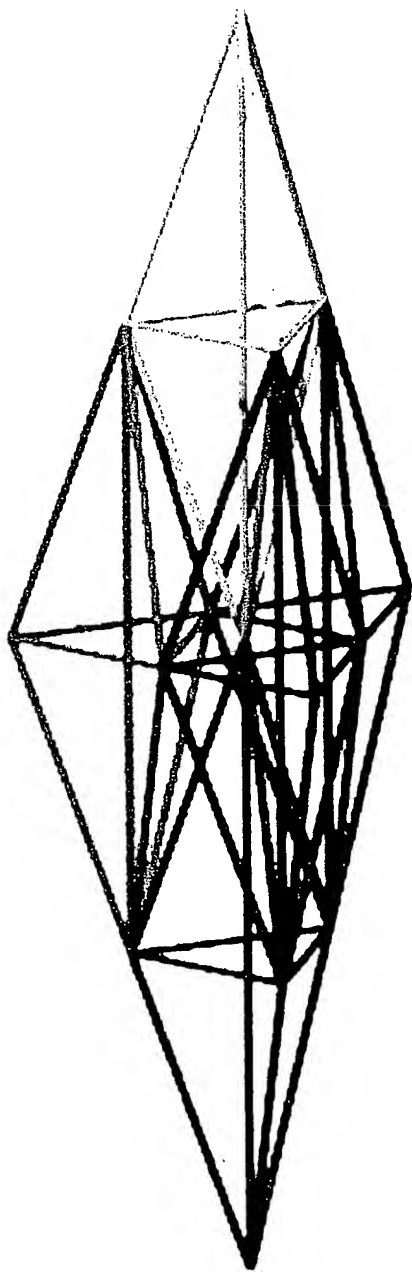


FIG. 21

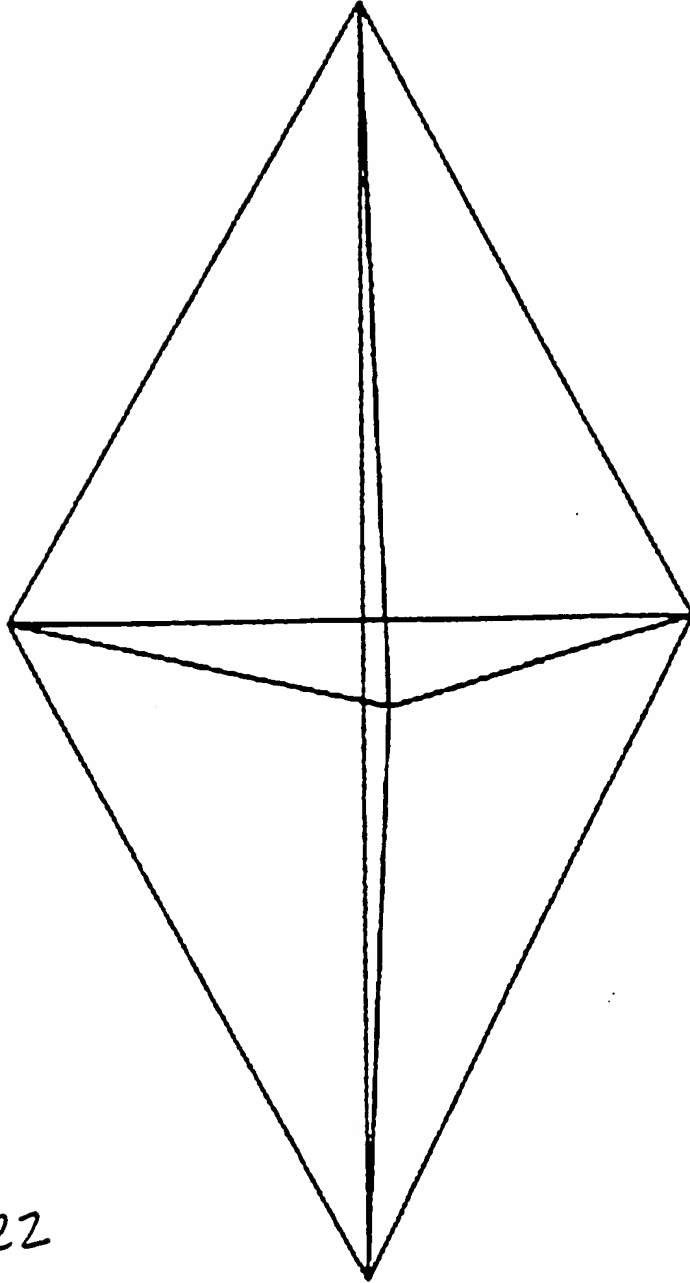


FIG. 22

10022871.122001

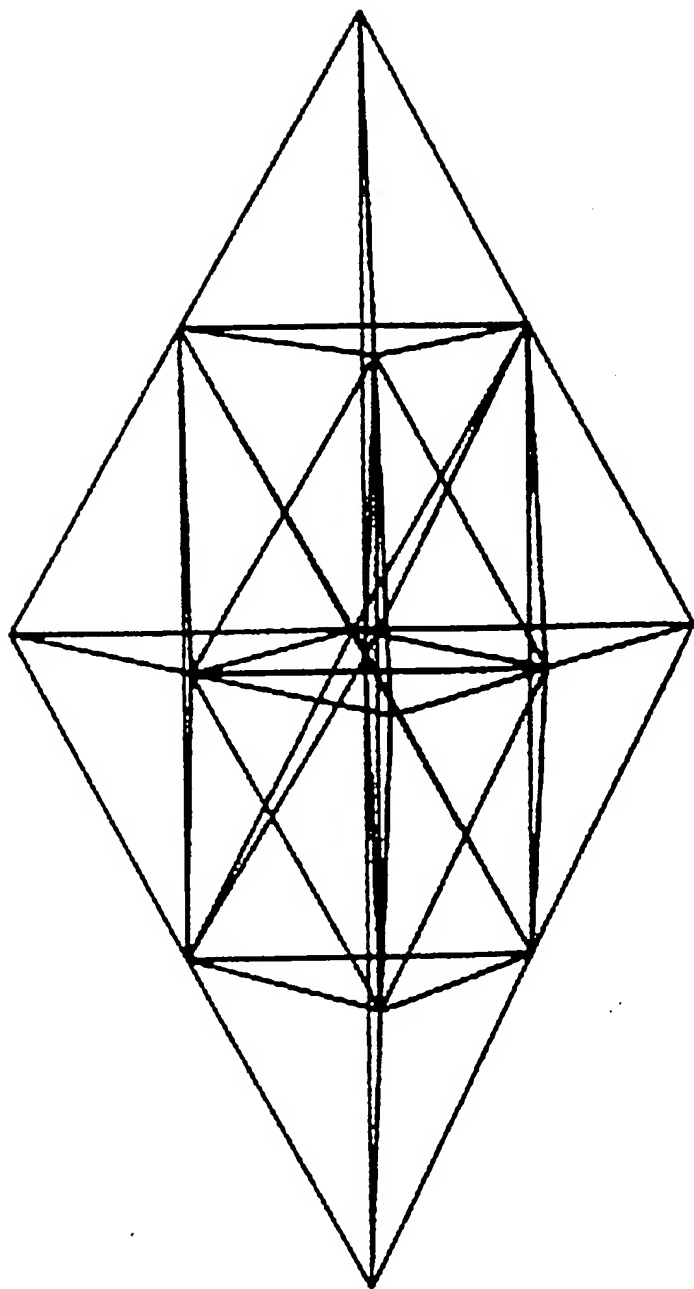


FIG. 23

10022871-122001

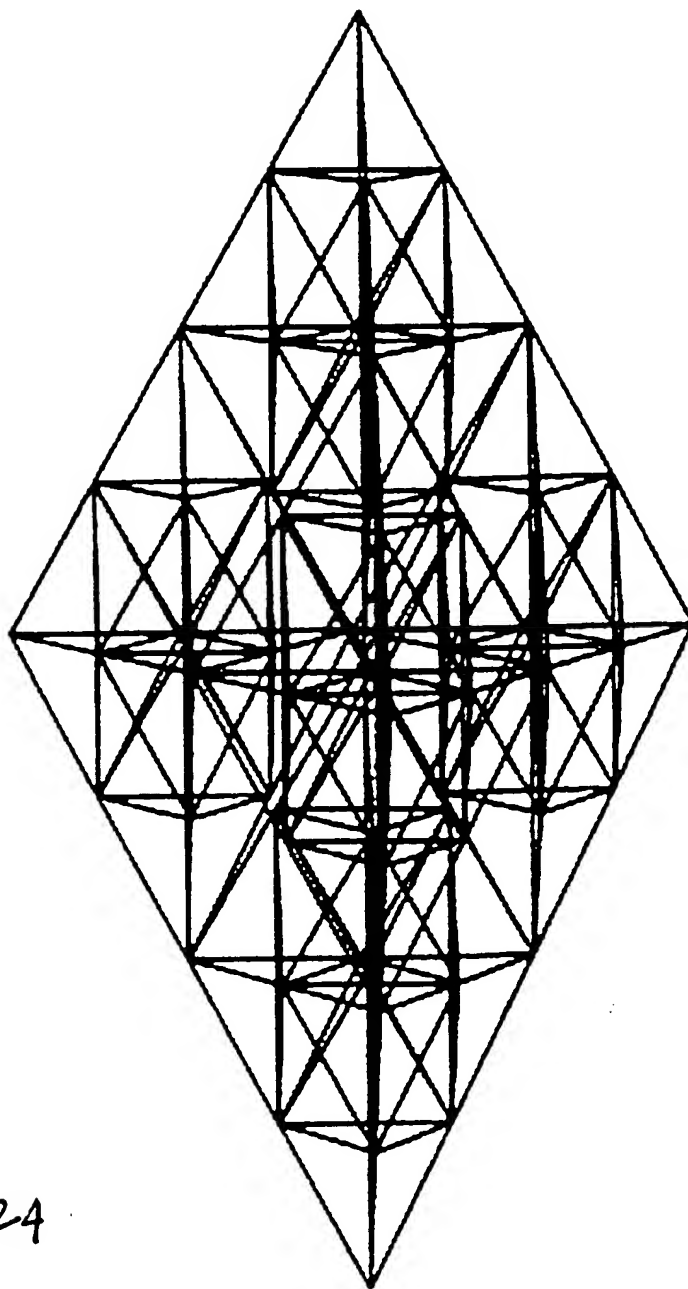


FIG.24

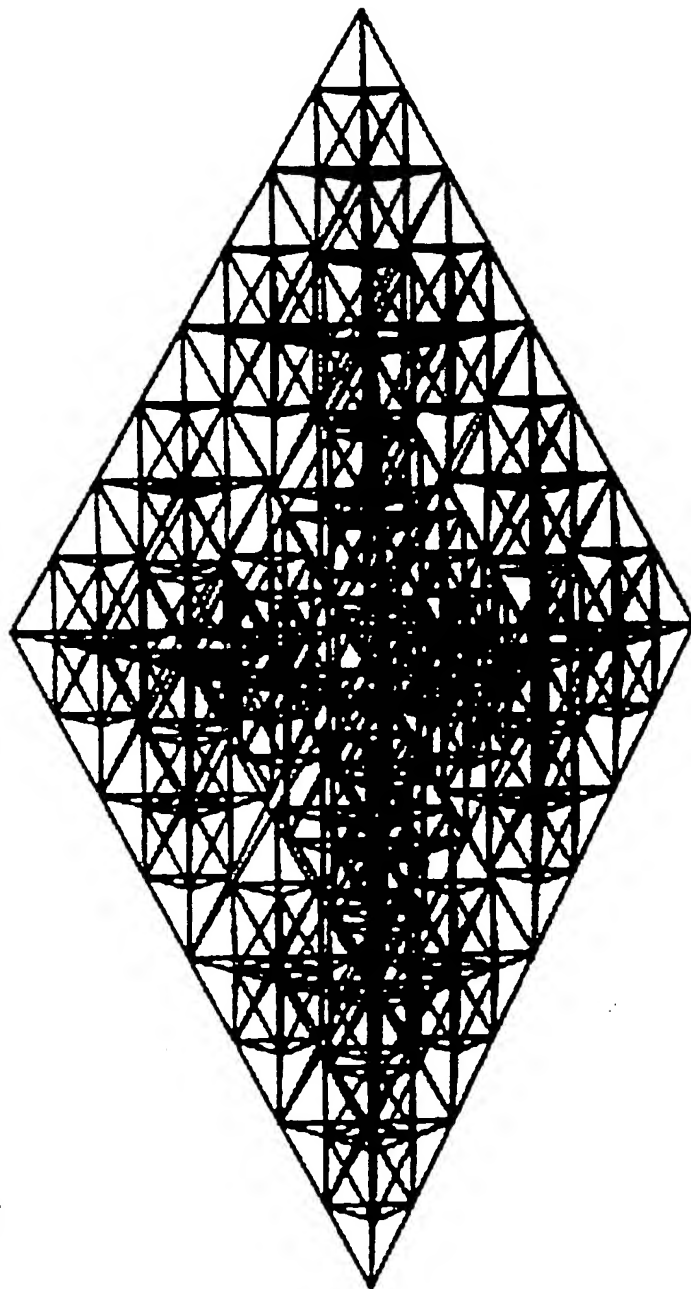


FIG.25

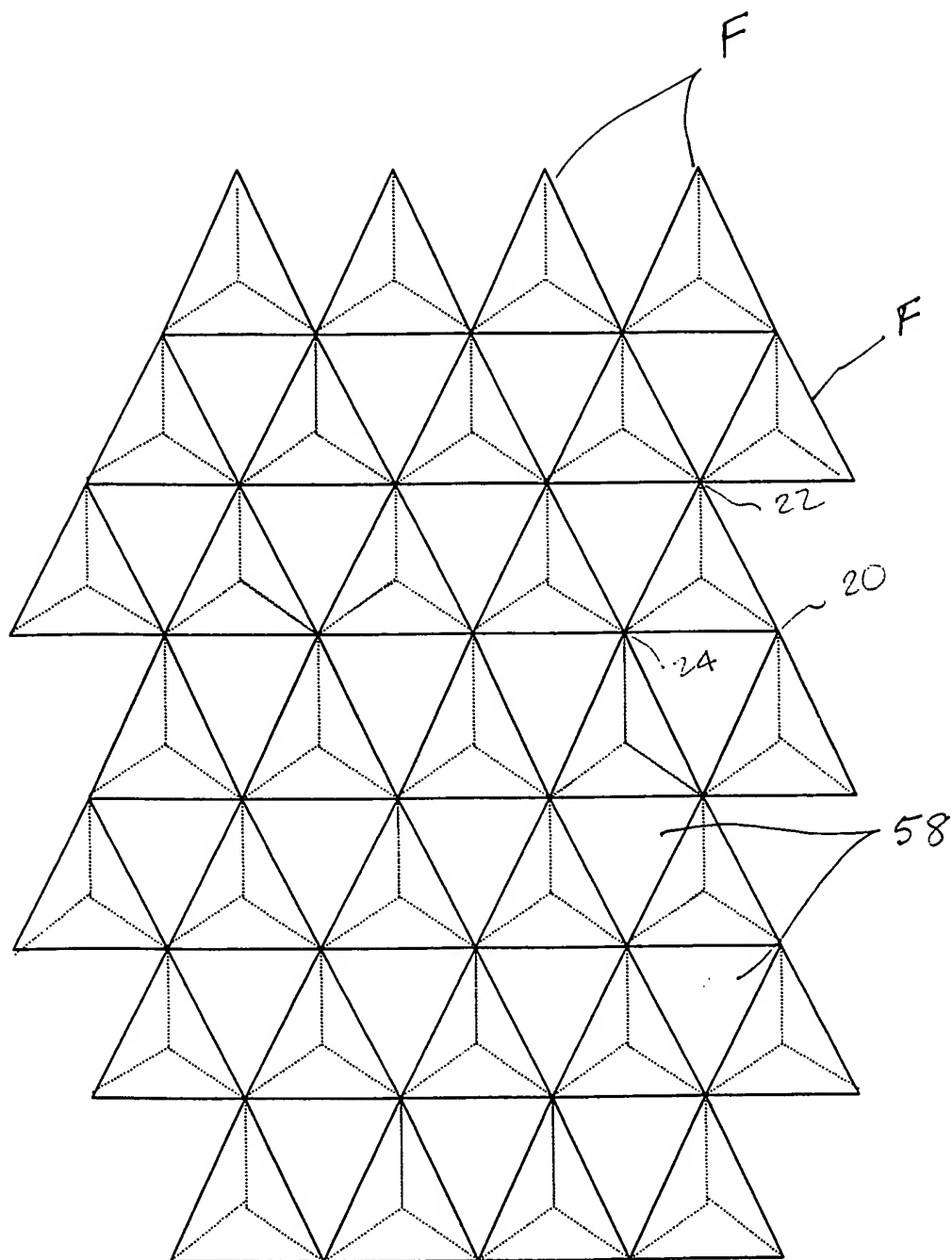


FIG. 26

10022871.1 100001

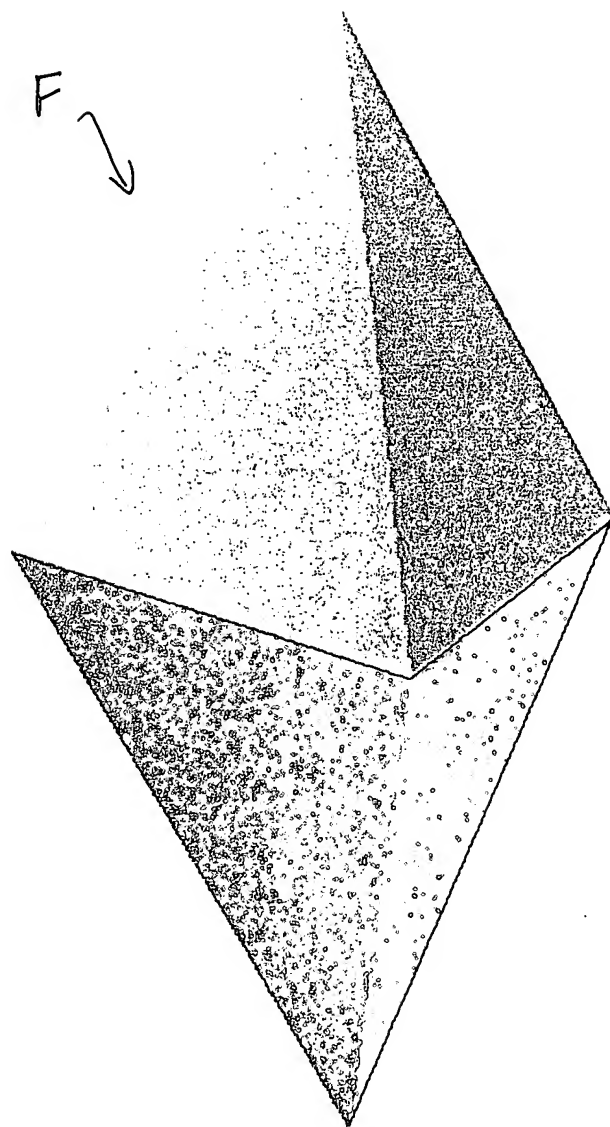


FIG. 27



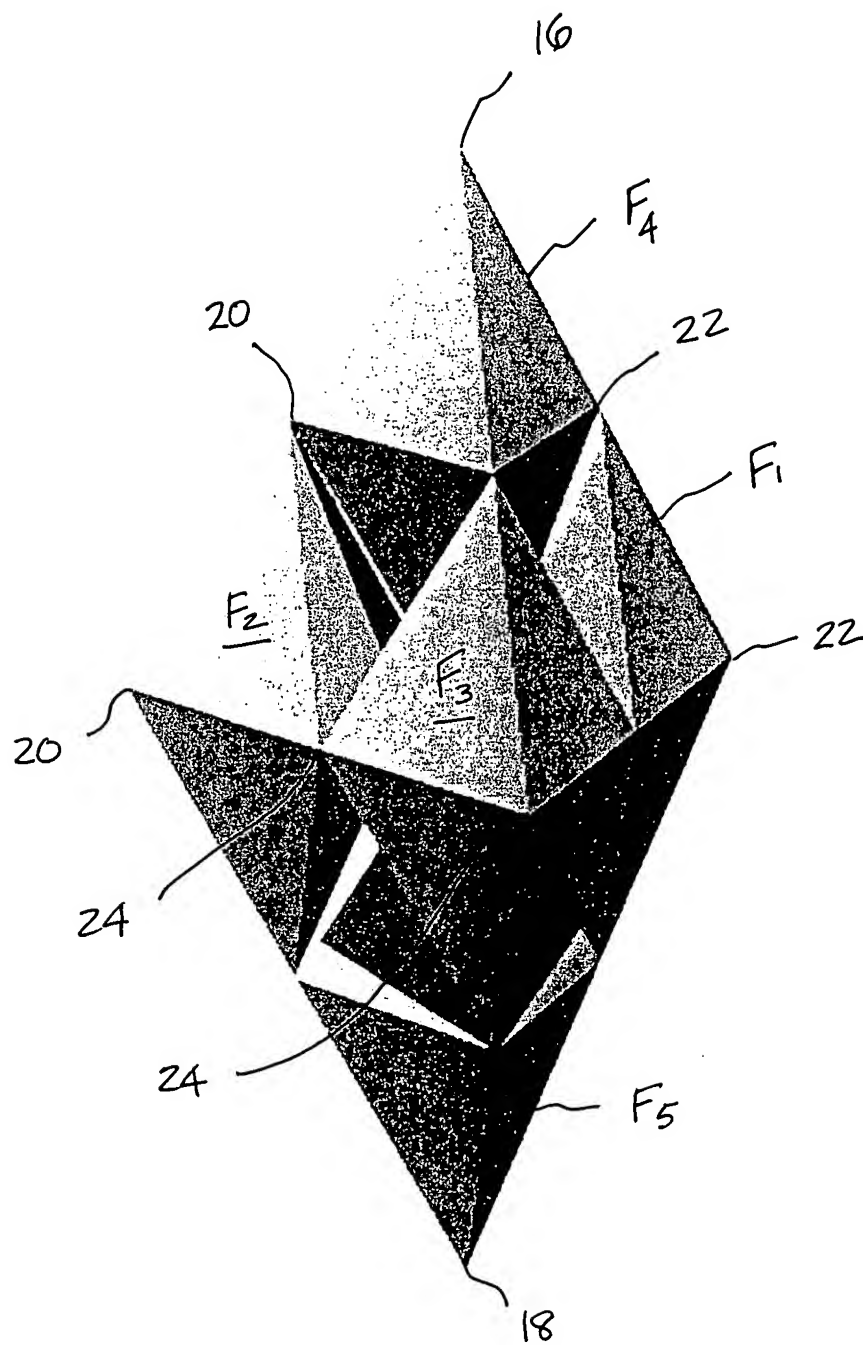


FIG. 28

10022871.122001

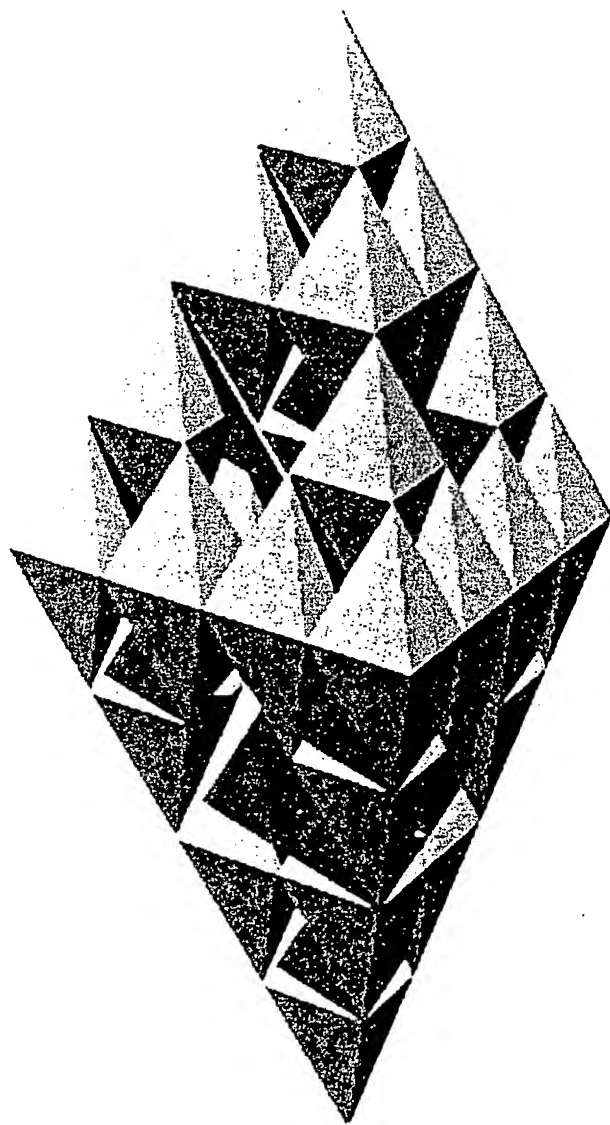


FIG. 29

10022371-12004

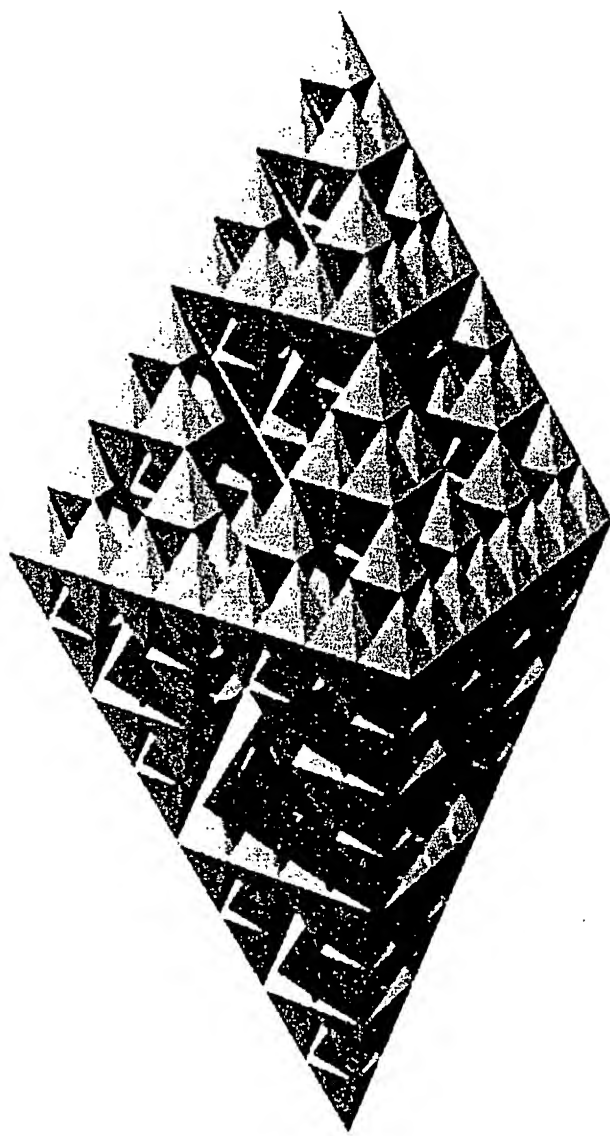


FIG. 30

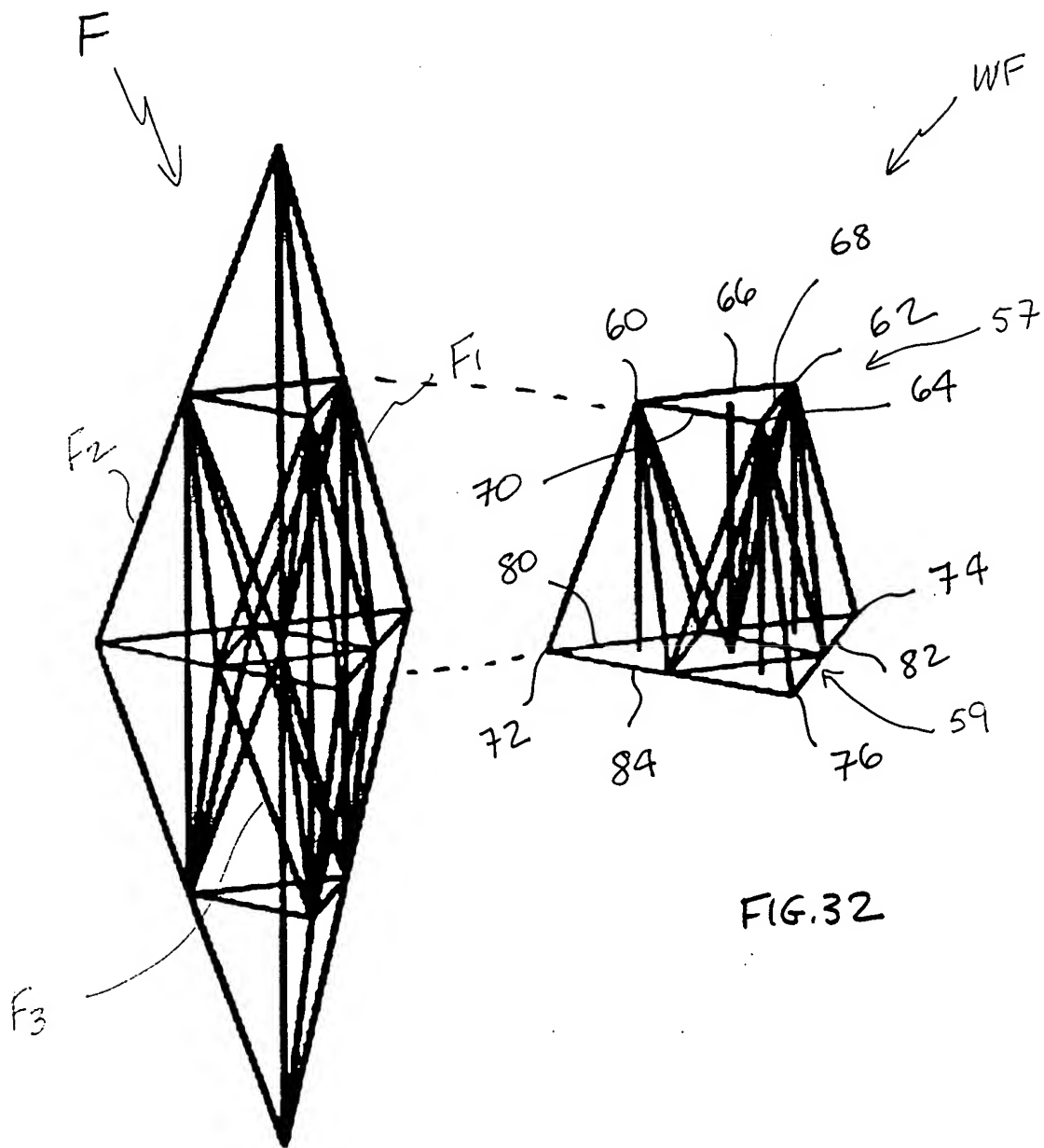
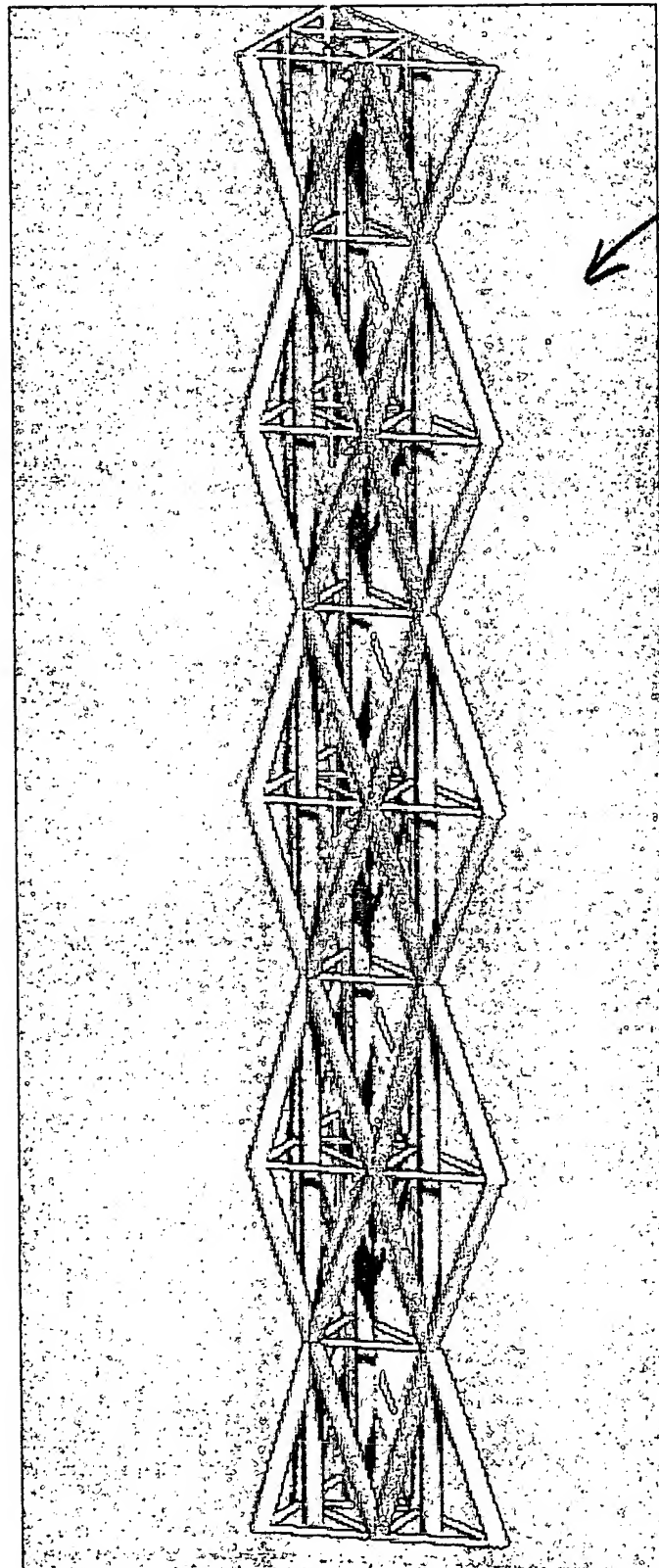


FIG. 31

FIG. 32



CM

FIG.33

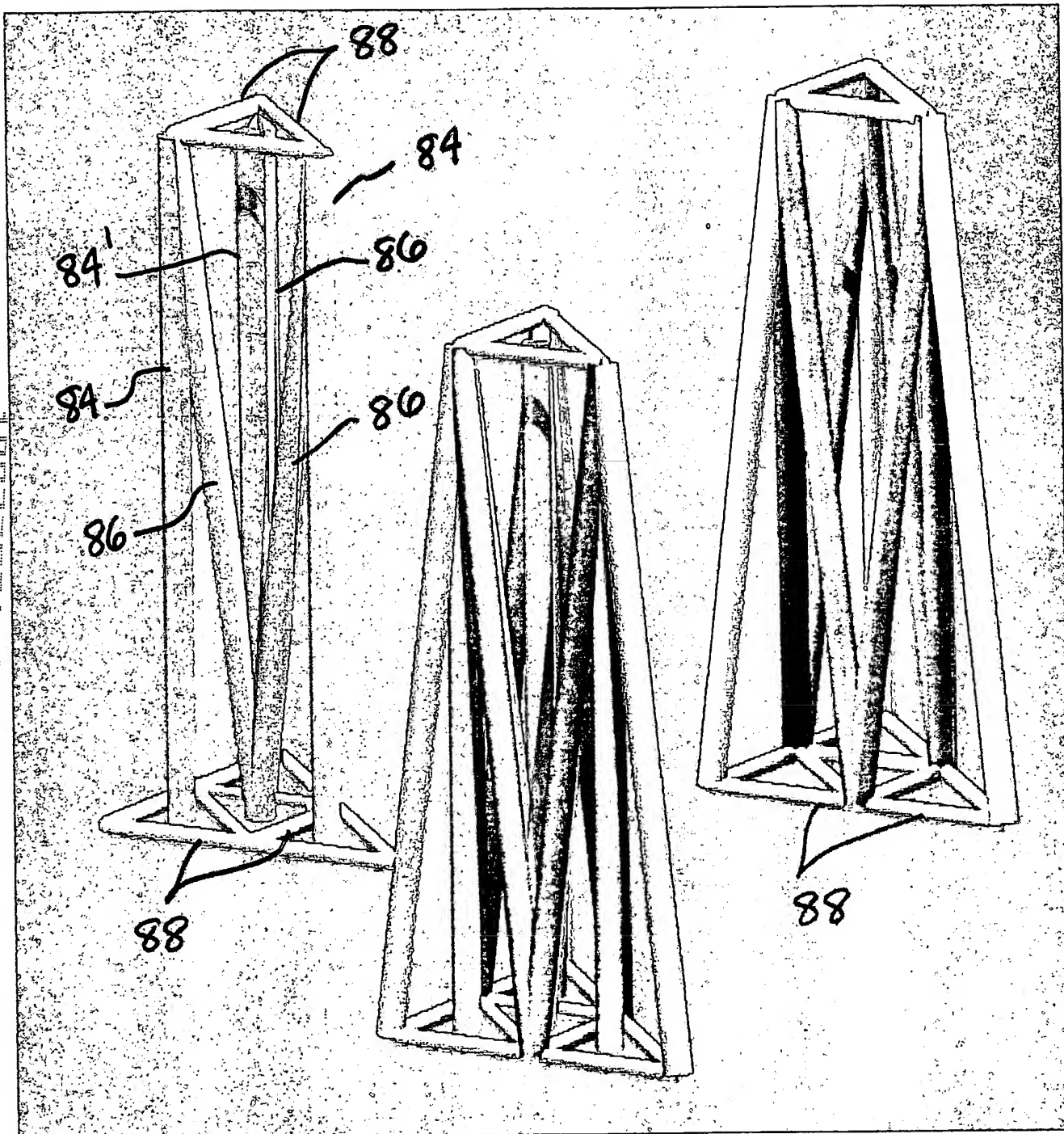


FIG. 35

FIG. 34

FIG. 36

1002237-122007

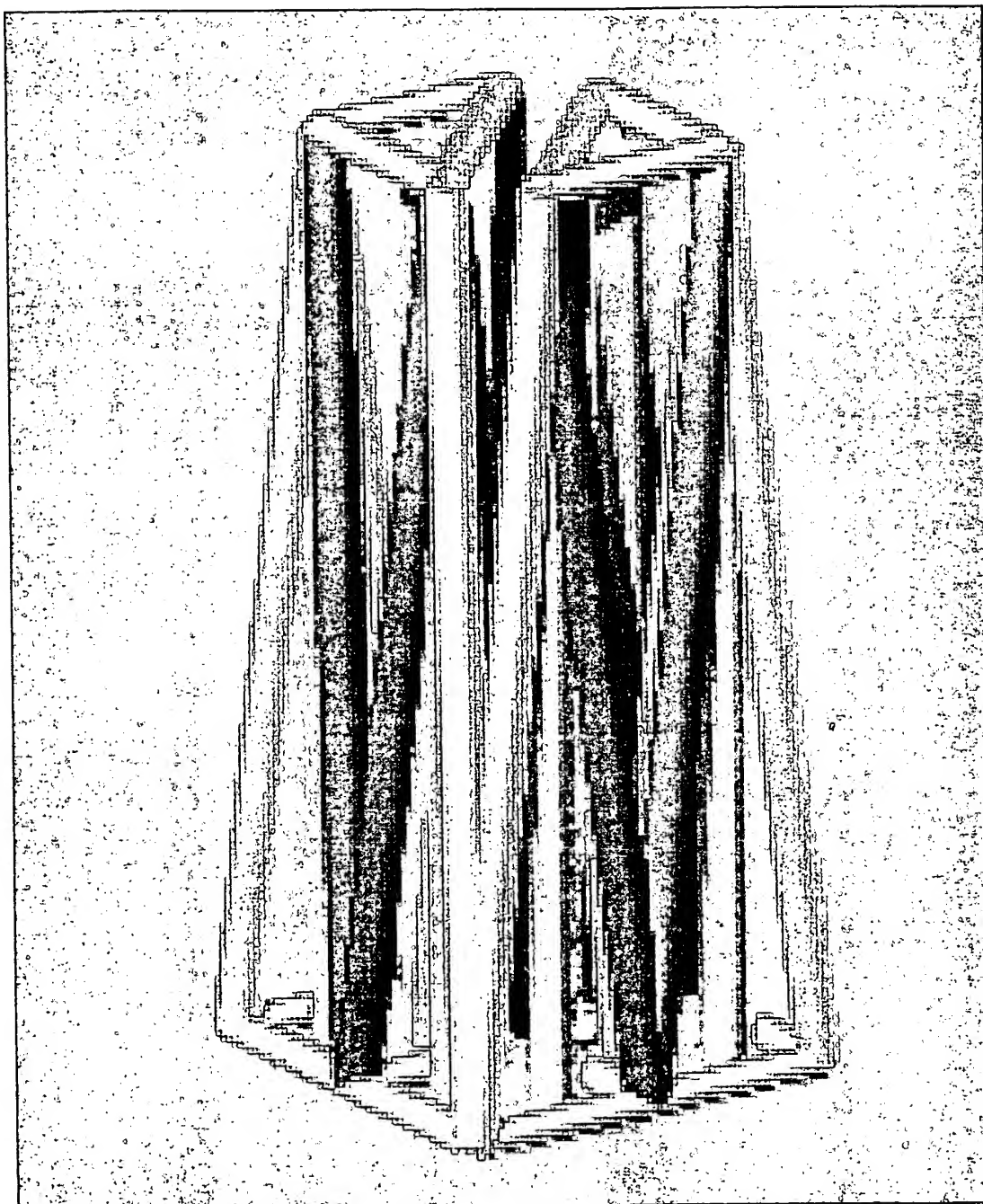


FIG. 37

10022871.123001

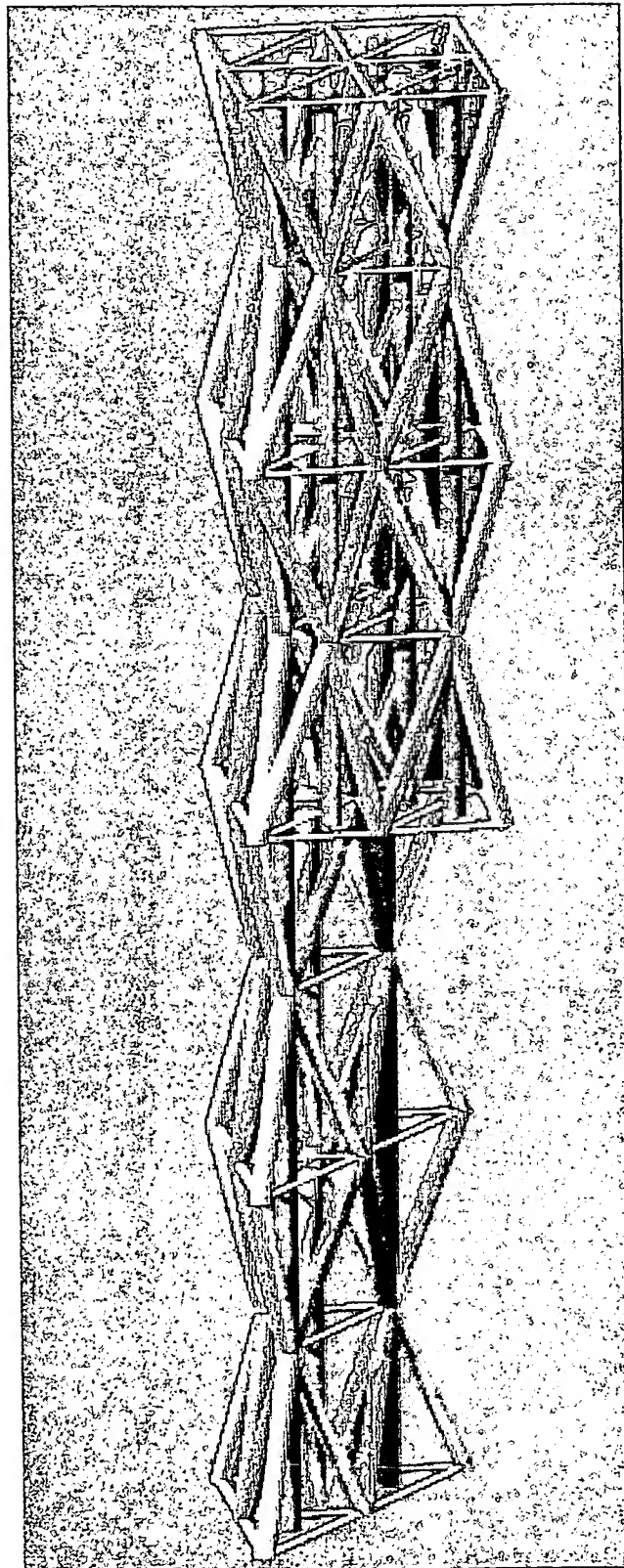


FIG. 38



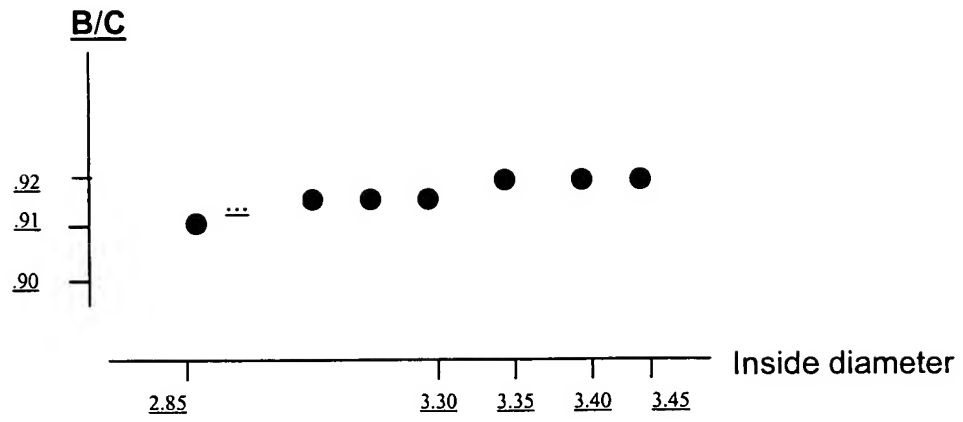


FIG. 39

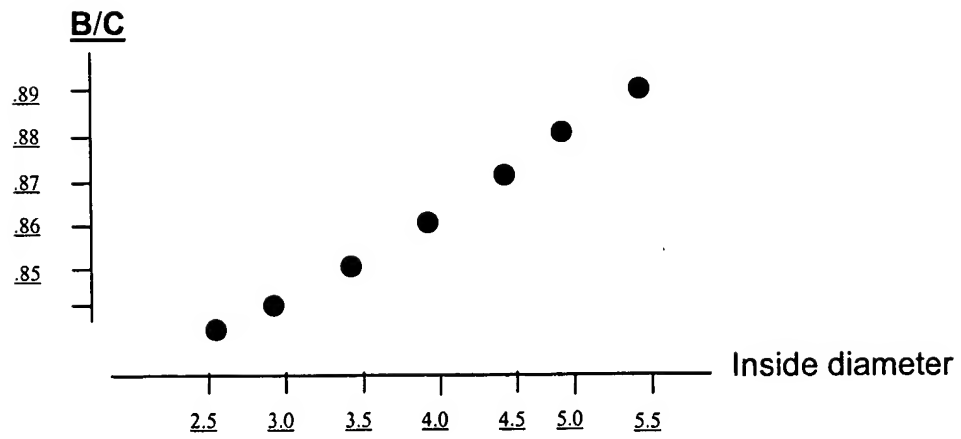
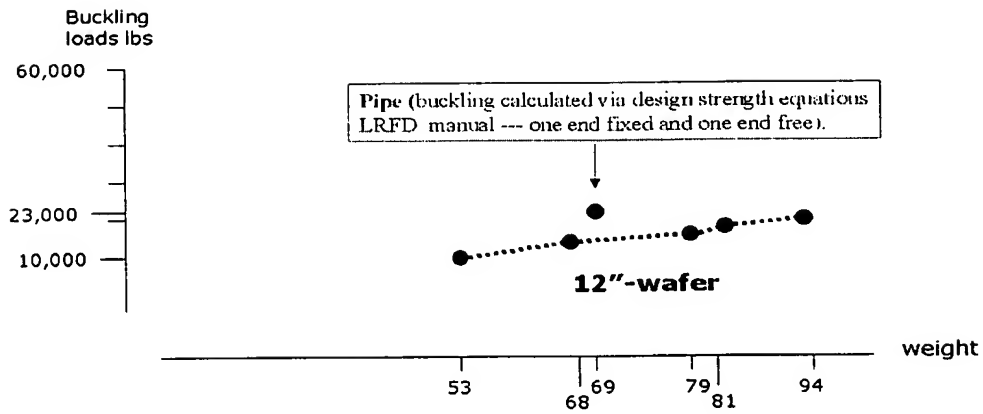
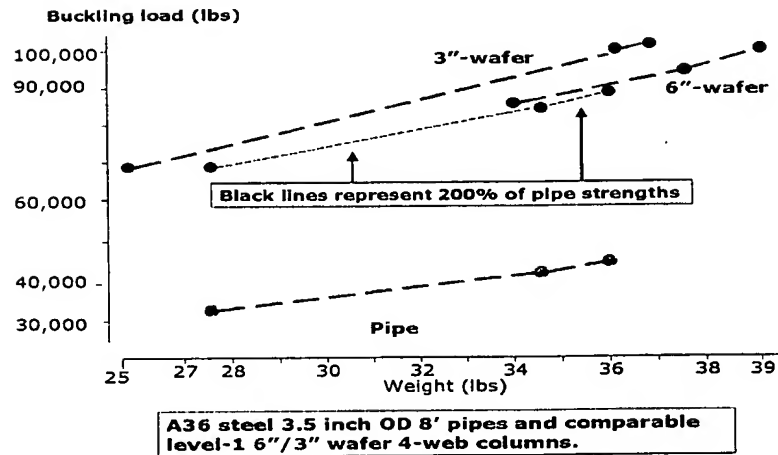


FIG. 40



One A36 steel 3.5" OD 1/4" wall thickness pipe and comparable level-1 12"-wafer 4-web columns

FIG. 41



A36 steel 3.5 inch OD 8' pipes and comparable level-1 6"/3" wafer 4-web columns.

FIG. 42

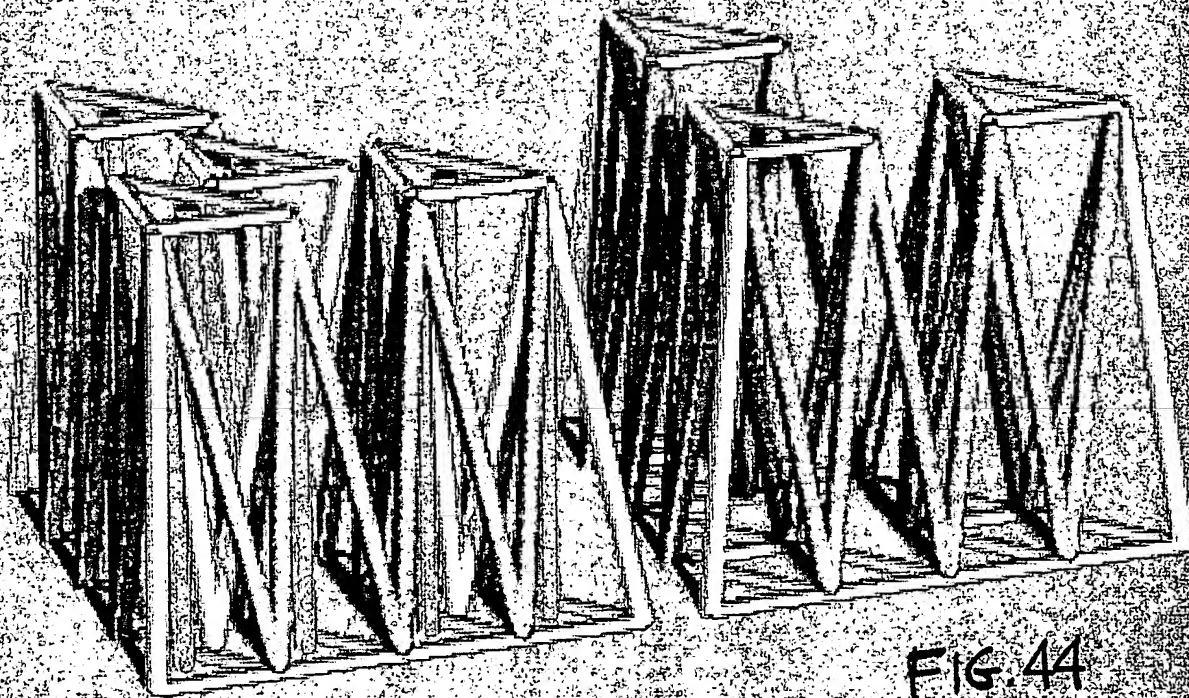


FIG. 43

FIG. 44

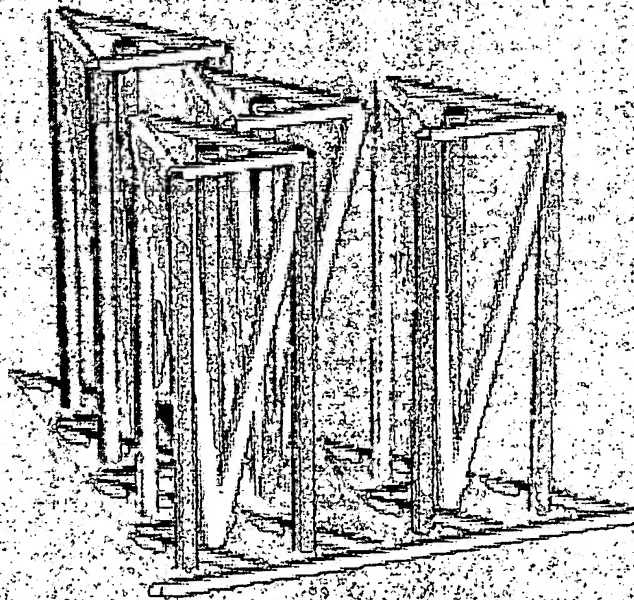


FIG. 45

10022871.1.22001

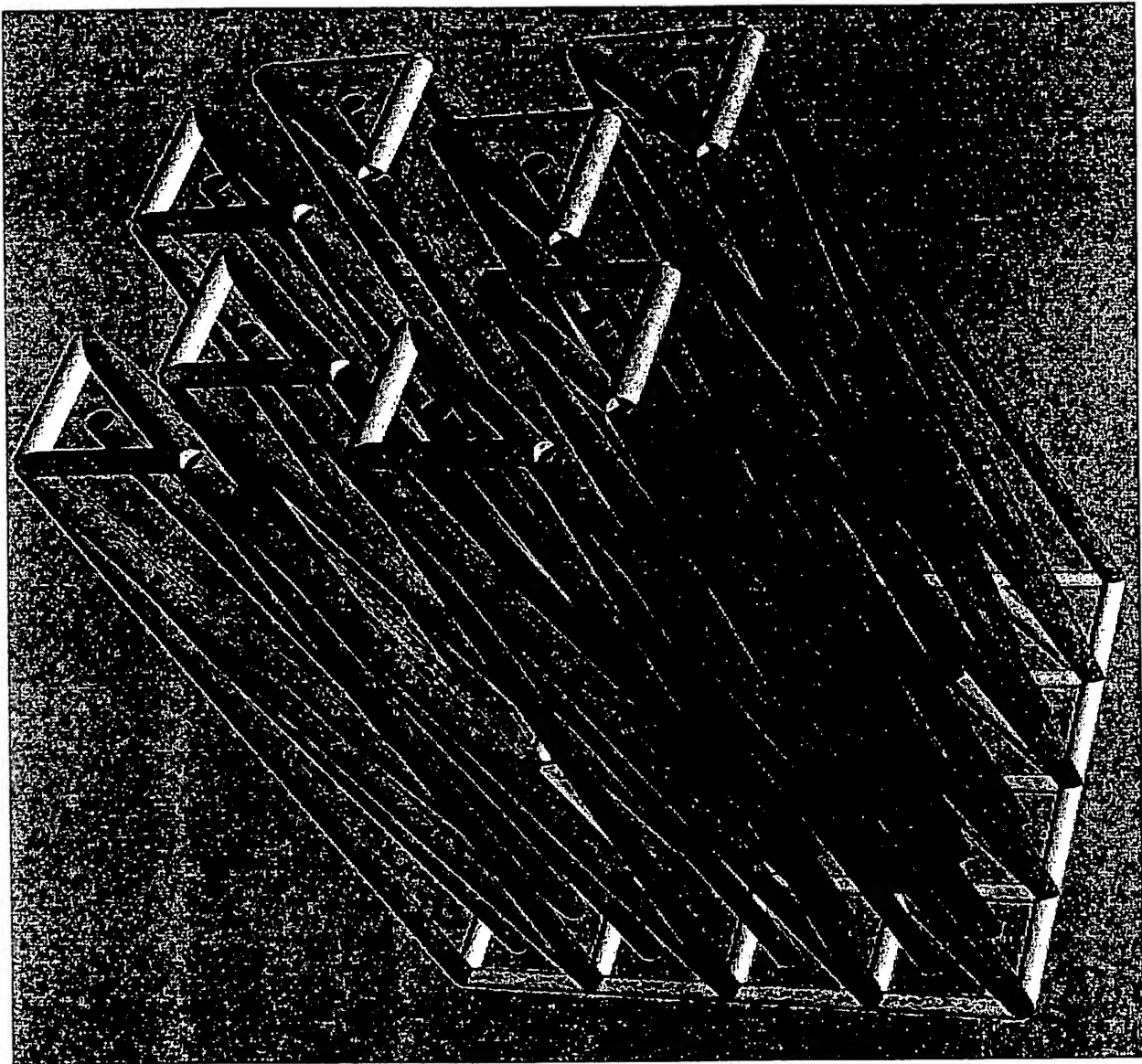


FIG. 46

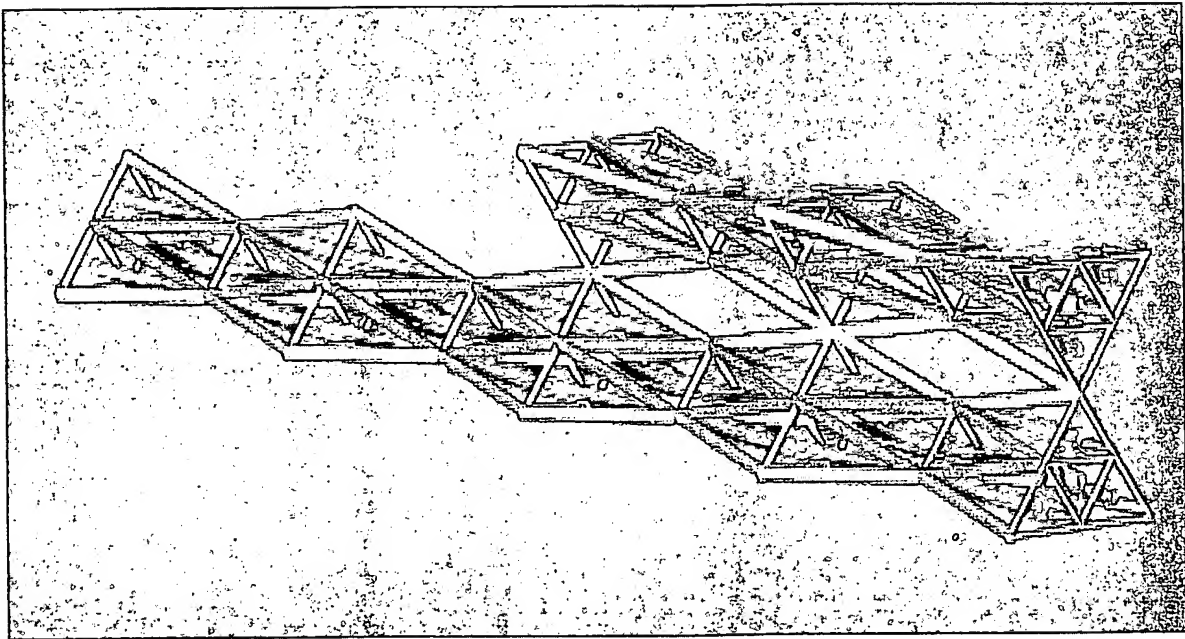


FIGURE 47

FIG. 48

